

### **What is claimed is:**

[Claim 1] A location-based apparatus capable of reproducing and displaying real-time participatory, experiential three-dimension environment, including three-dimensional images and hologram from another similar apparatus, external location and pre-recorded images, comprising a projection-video-camera wall to capture and display dynamic image, audio and sensor data; a audio-video-sensor processor to synchronize sound, light and sensor information and to convert analog data obtained by the light-receiving unit into digital data; a controller to measure the pixel count, focus, exposure and speed of movement of video images; a recording medium to record audio, visual and sensor data for reproduction; a display screen to display dynamic images; and a wireless communication network.

[Claim 2] The apparatus as recited in claim 1, wherein the said controller is further configured to prepare audio, video and sensor data and transport them over wireless communication network.

[Claim 3] The apparatus as recited in claim 1, wherein the said controller is further configured to project audio, video and sensor data in parallel the recording medium by flipping the projection lens with video camera lens and reversing light beam as input.

[Claim 4] An method recording, transporting and reproducing dynamic audio-video images with sensory data, comprising: a light-receiving process which obtains the multi-dimensional dynamic image, audio and sensor data; a conversion process which dissect the image, audio and sensor data by whole and part of the whole image pattern obtained in the light-receiving process; a time stamp on image data with Vertical Time Interval Code which detects an image having a digital value changed while conversion from the analog to digital converted image data; a chamber that creates a packet to transport data over a wireless network; and a control process which executes display synchronizing audio, video and

sensor data so that the number of pixels detected by the pixel number detecting process and the change thereof are accurately reflected, wherein the control process controls an amplification factor amplifying the image data obtained by the light-receiving process.

[Claim 5] A method as recited in claim 4, wherein dynamic video images are diffracted in multi-dimensional whole and part images to record and reproduce dynamic object-centered descriptions of everything within an image and form three dimensional dynamic images or holographic images.

[Claim 6] A method as recited in claim 4, wherein dynamic audio, video and sensor data are diffracted in multi-dimensional whole and part images to transport over the wireless communication network.

[Claim 7] A method as recited in claim 4, wherein audio, video and sensor data signals are encrypted for transportation.